

Date: Mon, 7 Feb 94 03:40:34 PST  
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>  
Errors-To: Info-Hams-Errors@UCSD.Edu  
Reply-To: Info-Hams@UCSD.Edu  
Precedence: Bulk  
Subject: Info-Hams Digest V94 #118  
To: Info-Hams

Info-Hams Digest                      Mon, 7 Feb 94                      Volume 94 : Issue 118

Today's Topics:

ARLB016 Georgia bill introduced  
ARLB017 RF standards opposed  
ARLD008 DX news  
Las Vegas Frequencies  
Licence Recieve times...  
Logging Programs  
Operating in Canada?  
RB312 SEMANTICS 2/7 FOR FEB 7TH  
Spark Gap Transmitter

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>  
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>  
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available  
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text  
herein consists of personal comments and does not represent the official  
policies or positions of any party. Your mileage may vary. So there.

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Date: Sat, 5 Feb 1994 23:49:59 -0700  
From: agate!howland.reston.ans.net!wupost!gumby!destroyer!nntp.cs.ubc.ca!alberta!  
ve6mgs!usenet@network.ucsd.edu  
Subject: ARLB016 Georgia bill introduced  
To: info-hams@ucsd.edu

SB QST @ ARL \$ARLB016  
ARLB016 Georgia bill introduced

ZCZC AG80  
QST de W1AW  
ARRL Bulletin 16 ARLB016

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Date: Sat, 5 Feb 1994 23:57:42 -0700  
From: agate!howland.reston.ans.net!wupost!gumby!destroyer!nntp.cs.ubc.ca!alberta!  
ve6mgs!usenet@network.ucsd.edu  
Subject: ARLB017 RF standards opposed  
To: info-hams@ucsd.edu

SB QST @ ARL \$ARLB017  
ARLB017 RF standards opposed

ZCZC AG81  
QST de W1AW  
ARRL Bulletin 17 ARLB017

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Date: Sat, 5 Feb 1994 23:58:33 -0700  
From: agate!howland.reston.ans.net!wupost!gumby!destroyer!nntp.cs.ubc.ca!alberta!  
ve6mgs!usenet@network.ucsd.edu  
Subject: ARLD008 DX news  
To: info-hams@ucsd.edu

SB DX @ ARL \$ARLD008  
ARLD008 DX news

ZCZC AE06  
QST de W1AW  
DX Bulletin 8 ARLD008

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Date: 4 Feb 1994 16:16:32 GMT  
From: olivea!korie!newscast.West.Sun.COM!cronkite.Central.Sun.COM!webrider!  
doc@uunet.uu.net  
Subject: Las Vegas Frequencies  
To: info-hams@ucsd.edu

Greetings -

I am leaving for Las Vegas in a couple of days and wondered  
if anyone had some frequency lists for the area. I would be  
interested in a wide cross section of frequency categories.

Thanks for any help,

Steve

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-- Steve Bunis, Sun Microsystems \*\*\*DoD #0795\*\*\* 93-ST1100  
-- Itasca, IL \*\*\*AMA #682049\*\*\*  
-- \*\*\*HRCA #HM125617\*\*  
-- \*\*\* N9VLP \*\*\*

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Date: 6 Feb 1994 18:01:17 GMT

From: pacbell.com!sgiblab!spool.mu.edu!howland.reston.ans.net!usenet.ins.cwru.edu!  
ukma!eng.ufl.edu!usenet.ufl.edu!mailer.acns.fsu.edu!freenet2.scri.fsu.edu!

ijordan@network.ucsd.edu

Subject: Licence Recieve times...

To: info-hams@ucsd.edu

For all of you waiting for your licences, I and a friend of mine got our licences (no code tech) yesterday, exactly 8 weeks after taking the test, and we live in AZ. So it looks like the FCC is starting to get their act together, since during the last eight weeks there was the break for the cold storm and the winter holiday in the east. Good luck to the rest of ya.

--

Ian Jordan  
KC7ANP

--

\* \* Ian Jordan \* \*

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Date: Fri, 4 Feb 1994 18:23:43 GMT

From: ucsnews!sol.ctr.columbia.edu!howland.reston.ans.net!europa.eng.gtefsd.com!  
darwin.sura.net!mlb.semi.harris.com!controls.ccd.harris.com!drs@network.ucsd.edu

Subject: Logging Programs

To: info-hams@ucsd.edu

I have heard of "CT" logging software, I believe it is for contesting. Are there any knowledgeable people out there that know of the various programs available and what they support? I'd like one that supports mainly contests like CQWW, ARRL DX, ARRL SS, and the like (maybe even Field Day). I'd like something that doesnt require a bumch of memory and runs on an XT without any sort of windows stuff. I'd also like the program be able to generate labels.. Sounds like I'm writing my own specification.

--

Doug Snowden  
drs@ccd.harris.com  
N4IJ

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Date: Sun, 6 Feb 1994 19:01:03 GMT  
From: world!cravit@uunet.uu.net  
Subject: Operating in Canada?  
To: info-hams@ucsd.edu

In article <2j39od\$k0a@tribune.usask.ca>,  
Peter Hardie,4805,, <hardie@herald.usask.ca> wrote:  
>From article <06FEB94.12030322.0075@UNBVM1.CSD.UNB.CA>, by NAD0000 <NADO@UNB.CA>:  
>> In article <CKsGp5.2KF@world.std.com> drt@world.std.com (David R Tucker)  
writes:  
>>>According to that government official I talked to, as well as the  
>>>rules near as I can tell, you are NOT, repeat NOT, restricted to your  
>>>US amateur privileges while in Canada, contrary to what the ARRL rule  
>>>book says. That means that it is perfectly legal for a General, while  
>>>in Canada, to use phone on 14.110, or CW on 7.010. It's somewhat  
>>>frustrating, because others have reported being told otherwise. But  
>>  
>> I disagree. You are stuck with US limits when you visit Canada  
>You can disagree, but he's right. The regs clearly state that a U.S. amateur  
>who is a U.S. citizen AND resident and who is qualified to send and receive

This is what the Canadian regs say. But the US regs say that an  
amateur operating abroad under a US license and reciprocal treaty must  
not exceed what their US license allows, even if permitted by the  
foreign regulations.

/Matthew

--  
Matthew Cravit, N9VWG | All opinions expressed here are  
Michigan State University | my own. I don't speak for The World,  
East Lansing, MI 48825 | and they don't speak for me (luckily  
E-Mail: cravit@world.std.com | for both of us).

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Date: Sat, 5 Feb 1994 15:47:15 -0700  
From: library.ucla.edu!csulb.edu!nic-nac.CSU.net!usc!sol.ctr.columbia.edu!  
deep.rsoft.bc.ca!vanbc.wimsey.com!cyber2.cyberstore.ca!nntp.cs.ubc.ca!alberta!  
ve6mgs!usenet@network.ucsd.edu  
Subject: RB312 SEMANTICS 2/7 FOR FEB 7TH  
To: info-hams@ucsd.edu

Bid : \$RACESBUL.312

From: W6WWW@KD6XZ.#NOCAL.CA.USA.NOAM  
To : RACES@ALLUS

TO: ALL ES, CD, AND PUBLIC SAFETY DIRECTORS VIA AMATEUR RADIO  
INFO: ALL RACES OPERATORS IN CALIFORNIA  
INFO: ALL AMATEUR RADIO OPERATORS  
FROM: CA STATE OFFICE OF EMERGENCY SERVICES  
(W6SIG@WA6NWE.CA) Ph: 916-262-1600  
2800 MEADOWVIEW RD., SACRAMENTO, CA 95832  
LANDLINE BBS OPEN TO ALL 916-262-1657  
RACESBUL.312 RELEASE DATE: February 7, 1994

Subject: MGT - Semantics 2/7 - Civil Defense

Semantics is the basis for the majority of misunderstandings or disagreements. Semantics: the definition of words. A word that means one thing in one part of the country can mean either nothing or something else altogether in another part of the country. Let's discuss some of the common position titles most of us have heard at one time or another. Some of the titles apply to paid staff, others to volunteers, and some are held by both.

CIVIL DEFENSE. This term is still used by many jurisdictions. In others it has been changed to emergency services, emergency management, disaster preparedness or similar name --- but it's role is still the same. In some jurisdictions the civil defense official is principally a planner and delegates all or most activities to departments in the jurisdiction. In other jurisdictions the position has command and control authority and responsibility. The CD official may directly supervise the RACES program in some jurisdictions. In others it has been delegated to another department head. The final authority and responsibility, however, always rests with the civil defense official.  
(Part 2 of 7. Continued)

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RACES Bulletins are archived on the Internet at ucsd.edu in hamradio/races and can be retrieved using FTP.  
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Date: Tue, 1 Feb 1994 05:12:40 GMT  
From: news.Hawaii.Edu!uhunix3.uhcc.Hawaii.Edu!jherman@ames.arpa  
Subject: Spark Gap Transmitter  
To: info-hams@ucsd.edu



```

|      |      (.)mtr  |      |
o 117v o      |      o 117v o
                |
                >D
                | carbon mic
                #####

```

F-24-a 's may be subbed for  
833's if supply's are made  
larger.

How it works:

The 2 tubes form a push pull power oscillator which makes alternating current, but at a radio frequency.

This is done by use of L1 , L3, and the 2 little tubes.

In this case, the actual frequency is not important, since the objective is to generate maximum bandwidth...the goal of any 'phone station.

C1 is used to obtain maximum power by resonating L1 to L2's natural freq.

This RF voltage is stepped up by a factor of 30 to 100X by L2 and sent on to the spark-gap, where the actual RF-to-be-sent is generated.

The RFC keeps the ant ckt at DC ground, yet will not short out the RF...which is sent from the sparkgap, to the ant.

The ant wants to be one wire, and end fed. No coax required..just hook 'er up and duck.

The length of the antenna determines the sending band it will be on.  
The formula to use to get that length is...

$$\text{Feet} = 468 / (((F * F) + 730) - (F * F))$$

F = frequency in Mhz ( rounded off to nearest 100 Khz )

Voice modulation is done by use of a special Carbon Microphone, as used in the 1920's...which can handle several amps.

Here, rather than sending RF thru the mic as was done back then, only DC is sent thru.

That way, the operator (or inflictor) won't get an RF burn on his lips if he speaks too close to the mic.

That modulates the power to the tubes , which varies the intensity of the spark which then puts quite suitable a signal on the air.

The intellegibility will match the content of some of the QSO's now on the air.

To operate:

- 1 Place mouth near carbon microphone.
  - 2 Close S1 and adjust C1 for dip in current (mtr) quickly.
  - 3 Make oinking and Mooing noises to indicate your presence to everyone.
  - 4 Open S1 when you get around to it.
- \*\*\*\*\*

Again, credit (or blame) goes to Randy KA1UNW for this pup.

Jeff NH6IL

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Date: (null)  
From: (null)  
SB DX ARL ARLD008  
ARLD008 DX news

The items in this week's bulletin are courtesy of Bob, W5KNE; QRZ DX; and the Ohio/Penn and Yankee Clipper Contest Club PacketCluster networks. Thanks.

PETER FIRST ISLAND. 3Y0PI has been active for several days. The last 100 PacketCluster spots show stations in the northeast US working them on all bands 40 through 10 meters.

On CW try 1826, 3522, 7022, 10104, 14024, 18074, 21024, 24894 and 28024 kHz. Listen for their SSB on 1845, 3785, 7065, 14195, 18145, 21295, 24945 and 28475 kHz. For RTTY try 1825, 3680, 14080, 21080 and 28180 kHz; and satellite action on 145.890 MHz listening down on OSCAR 10 and 13.

On HF the split windows are 5 to 10 kHz wide maximum on CW and 25 kHz on SSB. Stateside stations are being worked by call areas following propagation patterns, typically 1, 2, 3, 4, 8, 9, 0, 5, 7 and 6.

At around 1800z February 3, the DXpedition crew had some problems with their generators. The icebreaker that is to pick them up is running six days behind schedule, so the new pick up date is February 19.

MOUNT ATHOS. Monk Apollo, SV2ASP/A, has been heard on some of the WARC bands with a very strong signal, most notably on 17 meters. Also check between 3790 and 3795 kHz at 0530 and 1700z. He recently showed up on the 21335 DX Net around 1345z.

KERGUELEN ISLAND. New amateur Pierre, FT5XJ, will be on the island until July for a three month leave. When he returns his stay will



be for a year. He has been on 14250 kHz at 0500z, 14191 kHz at 1420z and can sometimes be found on 14198 kHz. QSL via F5NLL.

TONGA. Jim, VK9NS, is on as A35MR. He was worked on 21260 kHz between 2100 and 2200z. A35KB has also been active. Nob, JF2MBF, ex VR6JJ, along with Yasu, JI1NJC, will start a four week Pacific DXpedition from Tonga as A35JJ from February 12 to 20. This will be all band CW, SSB, RTTY and satellite operation. QSL A35JJ via JR2KDN.

TURKS AND CAICOS ISLANDS. Ed, K9IMM, and Carol, NS9L, will be on Provos from February 17 to 24. K9IMM will operate the ARRL CW DX Contest on 160 meters as VP5B. Before and after the contest Ed and Carol will operate as VP5/ their own calls on 160 through 10 meters, some of which may be with QRP. QSL via WB9NOV w/SASE.

THIS WEEKEND ON THE RADIO. The North American Sprint CW, sponsored by the National Contest Journal, NCJ, runs for four hours starting at 0000z February 6, or Saturday night local time. Check around 3540, 7040 and 14040 kHz. Complete rules appear on page 127 of January QST.

The 1994 Classic Radio Exchange is from 2000z February 6 to 0400z on the 7th. Amateurs are encouraged to operate restored equipment at least 10 years old. Exchange name, RST, QTH, receiver and transmitter type. CW action will be 60 kHz up from the bottom of the band. For SSB try 3880, 7290, 14280, 21380 and 28320 kHz. Novice/Tech stations on HF will be 20 kHz up from lower subband edge.

The Vermont QSO Party, sponsored by the Central Vermont ARC, is a must for those needing Vermont for their WAS awards. It starts at 0000z February 5 and ends at 0500z on the 6th. Activity will be on 160, 80, 40, 20, 15 and 10 meters.

For further information on these three operating events, check page 127 of January QST.

NNNN  
/EX

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Date: (null)  
From: (null)  
SB QST ARL ARLB016  
ARLB016 Georgia bill introduced

A bill introduced in the Georgia Legislature that would eliminate

the effect of restrictive property covenants on amateurs is believed to be the first of its type in the nation, according to Georgia Section Manager Jim Altman, N4UCK.

The bill, H.B. 1134, would prevent all new and renewed covenants from regulating, controlling, or restricting antennas owned and operated by licensed amateurs in the state.

Altman said that, in Georgia, all restrictive covenants have a life of 20 years, but can be renewed. This law, in banning new and renewed covenants, would leave the existing covenants in place until their natural expiration, and prevent new ones. Over the next 20 years, all existing covenants would disappear.

The bill was initially referred to the State Bar committee on real property law, which gave the measure a 'do pass' recommendation.

Amateurs in Georgia are urged to contact their state legislators and urge their support of H.B. 1134. For more information, contact Altman or the Regulatory Information Branch at ARRL Headquarters.

NNNN

/EX

SB SAREX @ AMSAT \$STS-60.006  
STS-60 Element Set for 2/4/94

The official SAREX element set for today will be GSFC-003. Gil Carman, WA5NOM reports that the predictions using GSFC-003 are 9 seconds later than with JSC-004. Element set GSFC-003, developed by Ron Parise, WA4SIR, and shown below, is consistent with the current orbiter state vector.

```
1 22977U 94006A   94 35.13981770 0.00000202  00000-0  58718-5 0    37
2 22977  56.9857 213.2731 0008535 263.0773  96.9324 15.72145611  115
```

Satellite: STS-60

Catalog number: 22977

Epoch time: 94035.13981770 (04 FEB 94 03:21:20.25 UTC)

Element set: GSFC-003

Inclination: 56.9857 deg

RA of node: 213.2731 deg Space Shuttle Flight STS-60

Eccentricity: 0.0008535 Keplerian Elements

Arg of perigee: 263.0773 deg

Mean anomaly: 96.9324 deg

Mean motion: 15.72145611 rev/day Semi-major Axis: 6730.8981 Km

Decay rate: 0.20E-05 rev/day\*2 Apogee Alt: 358.25 Km

Epoch rev: 11 Perigee Alt: 346.77 Km

NOTE - This element set is based on NORAD element set # 003.

The spacecraft has been propagated to the next ascending node, and the orbit number has been adjusted to bring it into agreement with the NASA numbering convention.

Submitted by Frank H. Bauer, KA3HDO, for the SAREX Working Group  
NNNN  
/EX

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Date: Mon, 7 Feb 1994 02:17:16 GMT  
From: agate!netsys!direct!kg7bk@network.ucsd.edu  
To: info-hams@ucsd.edu

References <2itt8qINN3q@cronkite.Central.Sun.COM>, <CKpy6n.4F7@news.direct.net>, <1994Feb6.180558.1229@ke4zv.atl.ga.us>  
Subject : Re: "Flexible" 9913 (Was - Re: Coaxial cable)

Gary Coffman (gary@ke4zv.atl.ga.us) wrote:

: bump on the coax that can affect VSWR. \*However\*, their impedance mismatch  
: can be \*absorbed\* into radio or antenna matching networks by competent  
: designers. Therefore, the coax sees a match even though the connector in  
: isolation would present a mismatch. So it's OK to have them at the endpoints  
: of a line \*if the equipment is designed for them\*. Having them in the middle  
: Gary Coffman KE4ZV

Gary, would you say my Alinco DR-570 with it's so239 and my Comet 2x4MAX with it's so239 are "absorbed...by competent designers"?

thanks and 73, Cecil, kg7bk@indirect.com

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Date: 4 Feb 1994 20:37:00 -0500  
From: news.sprintlink.net!news.clark.net!news.clark.net!not-for-mail@uunet.uu.net  
To: info-hams@ucsd.edu

References <01H8EZGJ1SCIDU7RYC@tntech.edu>, <1994Feb4.055258.16511@cyphyn.radnet.com>, <CKpnxz.4LJ@ucdavis.edu>ntli  
Subject : Re: was 40 meter QRP now hobbies

>that computers, aviation and photography top the list. So.... what are  
>some of the hobbies of the r.r.a.\* crowd?

How about running, biking, hiking, camping, computers, and music !!!

-----  
John A. Evans, Capt, USAF  
VHDL/EDA Engineer  
N3Q00 Tech Plus !!!

"My number one goal as a  
runner is to live long enough  
to place in my age group!!!"

jaevans@clark.net

Linux - the OS of choice !!

-----  
Once data encryption is outlawed, only outlaws will have data encryption !!!  
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-----  
Date: Mon, 7 Feb 1994 02:09:14 GMT  
From: agate!netsys!direct!kg7bk@network.ucsd.edu  
To: info-hams@ucsd.edu

References <CKM79r.45H@sunsrvr6.cci.com>, <2ire53\$o2g@explorer.clark.net>,  
<2iui7p\$vm@cascade.ens.tek.com>  
Subject : Re: Vertical Antennas

Terry Burge (t1terryb@cascade.ens.tek.com) wrote:

: >>A quarter wave ground plane has a gain of some-  
: >>where around 6 db over isotropic where a dipole has a gain of 2.14 db over  
: >>isotropic at it's theoritical best. Terry Burge KI7M

I can't always tell who said what but whoever said a dipole has a gain of  
2.14db over isotropic has to remember that that is in free space. A half-  
wave horizontal dipole over ground has somewhere around 7dbi gain  
depending on the ground. A half-wave horizontal dipole at a reasonable  
height has more gain than a quarter-wave vertical. A half-wave vertical  
has more gain than a quarter-wave vertical.

73, Cecil, kg7bk@indirect.com

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Date: (null)  
From: (null)  
SB QST ARL ARLB017  
ARLB017 RF standards opposed

RF standards opposed

The ARRL has told the FCC that a proposal to adopt new standards for  
exposure to radio frequency radiation should be terminated.

The League said that the proposal, which would change the

Commission's guidelines to match those adopted by the American National Standards Institute (ANSI) and the Institute of Electrical and Electronic Engineers (IEEE) in 1992, was premature, and more properly should have been introduced as an FCC notice of inquiry.

The ARRL said that the ANSI/IEEE standards were not properly delineated and not a proper basis for evaluating communications facilities. The new standards would replace less stringent standards adopted in 1982.

The League said that an FCC Report and Order in 1987 that concluded that amateur stations should be exempted from such RF exposure guidelines, because amateur stations operate only intermittently, and at low power levels, still applies. Only rarely, the League said, would amateur stations even exceed the proposed, more stringent 1992 ANSI/IEEE standard.

The League said that the FCC's proceeding should be terminated in favor of more study, by a more appropriate government agency, such as the Environmental Protection Agency, or else by an FCC notice of inquiry.

This proposal, in ET Docket 93-62, was made in the spring of 1993 and its comment deadline has been extended several times, most recently to January 25, 1994, based on a request by CBS Inc. The reply comment deadline is February 24, 1994.

NNNN

/EX

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Date: Wed, 2 Feb 1994 00:53:43 GMT

From: news.Hawaii.Edu!uhunix3.uhcc.Hawaii.Edu!jherman@ames.arpa

To: info-hams@ucsd.edu

References <2hmper\$ppo@solaris.cc.vt.edu>, <CKBJtu.45s@freenet.carleton.ca>, <2ik0cn\$9hq@orca.es.com>

Subject : Re: Famous hams

In article <2ik0cn\$9hq@orca.es.com> alan@olin.es.com (Alan Brubaker) writes:  
>In article <CKBJtu.45s@freenet.carleton.ca> ab510@FreeNet.Carleton.CA (George Attallah) writes:

>>

> ...Famous Hams...

>>

>>H0H0 Santa Claus

>>W7KID Billy The Kid

>>

>  
>How could you forget:  
>  
>SL1CE                    Lorena Bobbitt  
  
SK8TR                    Tonya ``Will she be indicted?'' Harding

Jeffrey NH6IL   jherman@hawaii.edu

Vietnamese Proverb: If you study you will become what you wish  
                      If you do not study you will never become anything.

-----  
Date: Wed, 2 Feb 1994 00:45:26 GMT  
From: news.Hawaii.Edu!uhunix3.uhcc.Hawaii.Edu!jherman@ames.arpa  
To: info-hams@ucsd.edu

References <9401301805.AA17277@cmr.ncsl.nist.gov>,  
<19940131.02065376.armond@delphi.com>, <CKIHK9.2ss@ucdavis.edu>  
Subject : Re: Boring WWV Programs

In article <CKIHK9.2ss@ucdavis.edu> ez006683@chip.ucdavis.edu (Daniel D. Todd)  
writes:

>ARMOND@delphi.com wrote:

>:    Those WWV people are not nice at all. I was just trying to be helpful  
>:    when I called to tell them that my S-38 (which I got at a swapmeet  
>:    for \$15) inmdicated that WWV was about 10 kilocycles off. That, when  
>:    they were not drifting. I suggested they go to crystal control.  
>:    I got this really neat Timex watch at a yard sale for \$5. It sez that  
>: ]   WWV is about 30 seconds off. What snotty people work at WWV. They did  
>:    not appreciate my helpful call at all.

>  
>Perhaps you should have used the telephone instead of calling them on  
>frequency.    BTW: yopu were 59 in No. Cal  
>;-)

You could get even with them by reporting them to the FCC for not ID'ing  
every ten minutes. I really don't know who they think they are - hogging  
so many frequencies; and they're certainly running more than the legal  
limit. Stuck up, too - they never answer my QRZ? calls...

Jeffrey NH6IL   jherman@hawaii.edu

Vietnamese Proverb: If you study you will become what you wish  
If you do not study you will never become anything.

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End of Info-Hams Digest V94 #118

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